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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,948	07/30/2003	Ulrich Botzel	L&L-I0044	8888
	7590 06/25/200 ENBERG STEMER LI	EXAMINER		
FOR INFINEON TECHNOLOGIES AG P.O. BOX 2480			CHAN, SAI MING	
HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
			2616	
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			06/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/629,948	BOTZEL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sai-Ming Chan	2616				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 4/16/	2008.					
·= · · · · · · · · · · · · · · · · · ·	action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-3,5-13,15-23 and 25-31</u> is/are pendi	ing in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3,5-13,15-23 and 25-31</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	·					
· · · <u> </u>	•					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		(1)				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Taper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Claims 4, 14 and 24 (canceled)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-2, 5-12, 15-22 and 25-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scott (U.S. Patent # 6388997), in view of Muller et al. (U.S. Patent Publication # 20030109228).

Consider **claims 1, 11, 21 and 31**, Scott clearly discloses and shows a data transmission system, comprising:

a base station (fig. 3a (304)) and at least two mobile stations (fig. 3a (302 (2 users stations)) for interchanging data bursts successively by radio (fig. 8 (transmitter and receiver for radio operation); column 6, lines 6-7) using a time slot method (abstract, lines 5-7; fig. 5a (510 & 511));

messages);

a transmitter (fig. 8A (807 transmitter); column 6, lines 6-7) of said base station being configured to transmit first data bursts (fig. 5c (571 – base station burst)) to said mobile stations, at least some of the first data bursts containing at least two data blocks (fig. 5c (574 has 16 mobile messages); column 20, lines 33-67, column 21, lines 7) intended for different ones of said mobile stations, said transmitter being configured to produce identification information only at a start of a transmission of each of the first data bursts

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each of said mobile stations having a transmitter (fig. 9 (907 transmitter); column 6, lines 11-12) configured to transmit a group of second data bursts (fig. 5c (572 -mobile bursts)) containing a data block intended for said base station (fig. 5c (575s); column 21, lines 38-46); and

(fig. 5c (574 has one preamble (with the header following it) for all the mobile

said first data burst and groups of the second data bursts being transmitted alternately (column 4, lines 64-67, column 5, lines 1-6 (alternate between base and user)); and a device for producing a guard time interval (base station (fig. 8a (811); column 17, lines 1-9); mobile station (fig.9 (911); column 19, lines 7-15) between the data bursts, and

However, Scott does not specifically disclose piconet and that the identification information is placed only at the start of the data burst.

In the same field of endeavor, Muller clearly shows piconet (fig. 1, paragraph 0004) and that the identification information is only placed at the start of the data burst (fig. 3 (24), paragraphs 0008 & 0009 (channel access code)).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to demonstrate a data transmission system, as taught by Scott, and show piconet and data structure with identification information, as taught by Muller, so that transmission time could be reduced.

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Consider **claim 2**, and **as applied to claim 1 above**, Scott, as modified by Muller, clearly discloses and shows the data transmission system, wherein said base station and each of said mobile stations have a local oscillator (fig. 18 (1821); column 52, lines 54-58).

Consider **claim 5**, and **as applied to claim 1 above**, Scott, as modified by Muller, clearly discloses and shows the data transmission, wherein at least one of: the first data burst and a subsequent one of the groups of the second data bursts are at different transmission frequencies (column 5, lines 7-10), and one of the groups of the second data bursts and a subsequent one of the first data bursts are at different transmission frequencies (column 5, lines 7-10).

Consider **claim 6**, and **as applied to claim 5 above**, Scott, as modified by Muller, clearly discloses and shows the data transmission system, wherein one of the transmission frequency of the first data burst and the group of the second data bursts is

constant during a transmission (column 5, lines 7-10 (frequency band is constant for data bursts).

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Consider claim 7, and as applied to claim 1 above, Scott, as modified by Muller, clearly discloses and shows the data transmission system, wherein the guard time interval between one of the first data bursts and a subsequent one of the second data bursts is equal to the guard time interval between the one of the second data bursts and the subsequent one of the first data bursts (column 4, lines 37-47 (a single collective guard time)).

Consider **claim 8**, and **as applied to claim 1 above**, Scott, as modified by Muller, clearly discloses and shows the data transmission system, wherein the guard time intervals between successive second data bursts have equal lengths (fig. 5 (573); column 21, lines 38-46).

Consider claim 9, and as applied to claim 1 above, Scott, as modified by Muller, clearly discloses and shows the data transmission system, wherein: the first data bursts contain at least two data blocks, with one data block being provided for each of said mobile stations (fig. 5c (578 has 16 mobile messages); column 20, lines 33-67, column 21, lines 7), and

a second data burst from each of said mobile stations is in each case provided in the group of the second data bursts (fig. 5c (each mobile burst in 572 is represented by 575); column 21, lines 38-46)).

Consider **claim 10**, and **as applied to claim 1 above**, Scott, as modified by Muller, clearly discloses and shows the data transmission system, wherein said data transmission system can be used in a system with real-time requirements selected from the group consisting of a cordless communication system, and a computer-controlled entertainment system, a computer-controlled game system (column 49, lines 23-24, lines 31-35).

Consider claim 12, and as applied to claim 11 above, Scott, as modified by Muller, clearly discloses and shows the frame structure, wherein said base station and each of said mobile stations have a local oscillator (fig. 18 (1821); column 52, lines 54-58).

Consider **claim 15**, and **as applied to claim 11 above**, Scott, as modified by Muller, clearly discloses and shows the frame structure, wherein at least one of: the first data burst and a subsequent one of the groups of the second data bursts are at different

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transmission frequencies (column 5, lines 7-10), and a group of the second data bursts and a subsequent one of the first data bursts are at different transmission frequencies (column 5, lines 7-10).

Consider **claim 16**, and **as applied to claim 15 above**, Scott, as modified by Muller, clearly discloses and shows the frame structure, wherein one of the transmission frequency of the first data burst and the group of the second data bursts is constant during a transmission (column 5, lines 7-10 (frequency band is constant for data bursts).

Consider **claim 17**, and **as applied to claim 11 above**, Scott, as modified by Muller, clearly discloses and shows the frame structure, wherein the guard time interval between one of the first data bursts and a subsequent one of the second data bursts equals a guard time interval between said second data bursts and subsequent first data bursts (column 4, lines 37-47 (a single collective guard time)).

Consider claim 18, and as applied to claim 11 above, Scott, as modified by Muller, clearly discloses and shows the frame structure, wherein the guard time intervals between successive second data bursts have equal lengths (fig. 5 (573); column 21, lines 38-46).

Consider **claim 19**, and **as applied to claim 11 above**, Scott, as modified by Muller, clearly discloses and shows the frame structure, wherein:

the first data bursts contain two data blocks, with one data block being provided for each of said mobile stations (fig. 5c (578 has 16 mobile messages); column 20, lines 33-67, column 21, lines 7), and

said second data burst include a data burst from each of said mobile stations (fig. 5c (each mobile burst in 572 is represented by 575); column 21, lines 38-46)).

Consider claim 20, and as applied to claim 11 above, Scott, as modified by Muller, clearly discloses and shows the frame structure, wherein said data transmission system can be used in a system having a real-time requirements selected from the group consisting of a cordless communication system, and a computer-controlled entertainment system, a computer-controlled game system (column 49, lines 23-24, lines 31-35).

Consider claim 22, and as applied to claim 21 above, Scott, as modified by Muller, clearly discloses and shows the method, which further comprises transmitting

and receiving data bursts with the base station and each of the mobile stations by using respective local oscillators (fig. 18 (1821); column 52, lines 54-58).

Consider claim 25, and as applied to claim 23 above, Scott, as modified by Muller, clearly discloses and shows the method, wherein at least one of:

the first data burst and a subsequent group of the second data bursts are at different transmission frequencies (column 5, lines 7-10); and

a group of the second data bursts and a subsequent first data burst are at different transmission frequencies(column 5, lines 7-10).

Consider claim 26, and as applied to claim 25 above, Scott, as modified by Muller, clearly discloses and shows the method, which further comprises keeping the transmission frequency constant during one of a transmission of the first data burst and a transmission of the group of the second data bursts (column 5, lines 7-10 (frequency band is constant for data bursts).

Consider claim 27, and as applied to claim 21 above, Scott, as modified by Muller, clearly discloses and shows the method, wherein:

the guard time interval is between the first data burst and a subsequent one of the second data bursts (fig. 5a (503) collective guard time)), and

the guard time interval has an equivalent length as between one of the second data bursts and a subsequent first data burst (column 4, lines 37-47 (single collective guard time)).

Consider **claim 28**, and **as applied to claim 21 above**, Scott, as modified by Muller, clearly discloses and shows the method, which further comprises providing guard time intervals of an equivalent length between successive second data bursts (fig. 5 (573); column 21, lines 38-46).

Consider claim 29, and as applied to claim 21 above, Scott, as modified by Muller, clearly discloses and shows the method, which further comprises:

in the first data bursts, providing at least two data blocks, one of the data blocks being provided for each of the mobile stations (fig. 5c (578 has 16 mobile messages); column 20, lines 33-67, column 21, lines 7); and

providing a second data burst from each of the mobile stations in each of the group of second data bursts (fig. 5c (each mobile burst in 572 is represented by 575); column 21, lines 38-46)).

Consider claim 30, and as applied to claim 21 above, Scott, as modified by Muller, clearly discloses and shows the method, which further comprises using the method in a system with real-time requirements selected from the group consisting of a cordless communication systems, a computer-controlled entertainment system, and a computer-controlled games system (column 49, lines 23-24, lines 31-35).

Claims 3, 13 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scott (U.S. Patent # 6388997), in view of Muller et al. (U.S. Patent Publication # 20030109228), and in view of Ozluturk (U.S. Patent Publication #20020141478).

Consider claim 3, and as applied to claim 1 above,

claim 13, and as applied to claim 12 above,

claim 23, and as applied to claim 22 above,

Scott, as modified by Muller, Ozluturk et al, and Johansson, clearly discloses and shows the data transmission system, wherein said base station and each of said mobile stations have a local oscillator (fig. 18 (1821); column 52, lines 54-58).

However, Scott, as modified by Muller, does not specifically disclose that the oscillator with PPL.

In the same field of endeavor, Ozluturk et al., clearly shows base station and mobile station (paragraph 16 (SU (subscriber unit) contains CDMA modems for

transmission and receiving signals is used by base and mobile station)) has a local oscillator (paragraph 461(SU is slave to oscillator)) which is connected to a respective PPL (paragraph 461(SU is connected to a PPL oscillator circuit)).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate data transmission system, as taught by Scott, demonstrate data structure with identification information, as taught by Muller, and identify the PPL oscillator, as taught by Ozluturk et al., so that timing is synchronized.

Response to Arguments

Applicant's arguments filed on 1/4/2008, with respect to claims 1, 11 and 21, on page 16 -29 of the remarks, have been fully considered.

In the present application, Applicants basically argue, that Scot et al. do not teach or suggest "identification information at the start of the transmission for each burst". The Examiner has modified the response with a new reference which combines with Scott to provide "identification information at the start of the transmission for each burst". See the above rejections of claims 1, 11 and 21, for the relevant interpretation and citations found in Muller et al., disclosing the limitation.

Conclusion

Any response to this Office Action should be **faxed to** (571) 273-8300 **or mailed to**:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Sai-Ming Chan whose telephone number is (571) 270-1769. The Examiner can normally be reached on Monday-Thursday from 6:30am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published Application/Control Number: 10/629,948 Page 15

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applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Center (EBC) at 866-217-9197 (toll-free) or 571-272-4100.

/Sai-Ming Chan/

Examiner, Art Unit 2616

June 19, 2008

/Seema S. Rao/

Supervisory Patent Examiner, Art Unit 2616